

MOTOROL RINKSOL EDM DIELECTRIC FLUID CAPS

Introduction:

MOTOROL RINKSOL EDM, is a unique product which has been derived out of selected paraffinic feed stocks by way of fractional distillation and further refining. It has a very narrow boiling range, low viscosity and a high flash point.

Applications:

Motorol RINKSOL EDM is ideally suited for Spark Erosion and Electrical Discharge Machining where metal removal from the workpiece is done by a series of controlled electric discharges or sparks. It is very high BDV makes it ideally suited as a dielectric fluid.

Advantages:

- ◆ High dielectric strength provides insulation of the tool and workpiece and helps control electric discharge during the machining operation.
- ◆ Non Corrosive and extends the life of the electrode.
- ◆ Relatively high flash reduces the chances of fire.
- ◆ Less volatile than kerosene and so less topping up required.
- ◆ Excellent oxidation stability helps reduce the formation of oxidation products that will alter the dielectric strength of the fluid.
- ◆ The low viscosity of the fluid provides good circulation through the spark gap and more rapid removal and settling of metal fines.

Performance Standard:

Proprietary grade.

Typical Specifications:

| CHARACTERISTICS | Test Method | Specified Value |
|-----------------------------------|-------------|------------------|
| Appearance | VISUAL | Bright and Clear |
| Color | ASTM D1500 | L0.5 |
| Specific Gravity at 29.5°C | ASTM D1298 | 0.825 |
| Flash Point, (°C), Min | ASTM D92 | 100 |
| Kinematic Viscosity at 40°C (cSt) | ASTM D445 | 3 |
| Pour Point (°C), Max | ASTM D97 | (-)12 |
| Breakdown Voltage (kV) | IS 6792 | 70 |
| Dielectric Constant | IS 6262 | 22 |
| Copper corrosion | ASTM D130 | 1A |

Environment, Health & Safety:

Every care has been taken to ensure the accuracy of the information in this PDS. This however may be affected by subsequent improvement in product (R&D). MSDS is available for all MOTOROL products on request. MOTOROL products are unlikely to present any health and safety hazard with proper use for the correct application and maintain proper personal hygiene. Do not spill oils on the shop floor, discharge into drains, ground or water sources.